

C VANILLIC-ACID

Chemid

VANILLICACID

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Achillea millefolium	Plant	--	--		Tunon, H., Thorsell, W., and Bohlin, L. 1993. Mosquito Repelling Activity of Compounds Occurring in Achillea millefolium L. (Asteraceae). Economic Botany 48(2): 111-120, 1994.
Agrimonia eupatoria	Plant	--	--		--
Allium cepa	Bulb	258	258	1	--
Allium sativum var. sativum	Bulb	--	6	-1	LAWSON in Koch, H. P. and Lawson, L. D., eds. 1996. Garlic- The Science and therapeutic application of Allium sativum L. and related species. Williams & Wilkins, Baltimore. 329 pp.
Althaea officinalis	Leaf	--	--		--
Althaea officinalis	Root	--	--		--
Althaea officinalis	Flower	--	--		--
Arachis hypogaea	Seed	43	43	0.2095248326726832	--
Arctostaphylos uva-ursi	Leaf	--	--		--
Armoracia rusticana	Root	45	45	0.4683014551040585	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Artemisia absinthium</i>	Plant	--	--		--
<i>Artemisia dracunculus</i>	Leaf	18	18	0.8117220703723087	--
<i>Aspalathus linearis</i>	Shoot	--	0.76		--
<i>Avena sativa</i>	Seed	--	--		--
<i>Beta vulgaris</i>	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Brassica nigra</i>	Seed	--	--		Jim Duke's personal files.
<i>Brassica oleracea</i> var. <i>botrytis</i> l.	Plant	--	--		--
<i>Brassica oleracea</i> var. <i>italica</i>	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
<i>Calendula officinalis</i>	Flower	--	--		--
<i>Catalpa ovata</i>	Wood	--	--		--
<i>Centaurea cyanus</i>	Flower	--	--		Jim Duke's personal files.
<i>Centaureum erythraea</i>	Plant	--	--		--
<i>Chenopodium album</i>	Fruit	--	--		--
<i>Chenopodium ambrosioides</i>	Fruit	--	--		--
<i>Cichorium intybus</i>	Leaf	0.5	0.5	-1.181981260366695	--
<i>Cocos nucifera</i>	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Conyza canadensis</i>	Plant	--	--		--
<i>Coriandrum sativum</i>	Fruit	960	960	1	Abstract (See species file)

Plant	Part	Low PPM	High PPM	StdDev	Reference
Coriandrum sativum	Plant	221	347	1.4132666574417567	Abstract (See species file)
Corylus americana	Seed	--	--		Senter, S. D., Horvat, R. J., Forbus, W. R. 1983. Comparative GLC-MS Analysis of Phenolic Acids of Selected Tree Nuts. J. Food Science, 48(3): 798-799.
Curcuma longa	Leaf	--	--		--
Daucus carota	Tissue Culture	--	--		--
Elaeagnus pungens	Plant	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Elettaria cardamomum	Leaf	--	--		--
Eleutherococcus senticosus	Root	--	--		--
Equisetum arvense	Plant	--	--		--
Euphrasia officinalis	Plant	--	--		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
Fagopyrum esculentum	Testa	--	--		--
Ferula sumbul	Plant	--	--		--
Ficus carica	Wood	--	--		--
Foeniculum vulgare	Fruit	--	--		--
Foeniculum vulgare	Seed	--	0.5	-1.527998169978836	--
Fragaria spp	Fruit	3	25	-1	Jim Duke's personal files.
Gaultheria procumbens	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Ginkgo biloba	Leaf	--	--		Jim Duke's personal files.
Ginkgo biloba	Plant	--	--		Tyler, V.E.. 1982. The Honest Herbal. George F. Stickley Co., Philadelphia PA. 263 pp.
Glycine max	Root	1	4	-1.3897978667604325	--
Glycine max	Seed	--	--		--
Holarrhena pubescens	Leaf	--	--		--
Hordeum vulgare	Fruit	--	--		--
Huperzia spp	Plant	--	--		--
Hypericum perforatum	Plant	--	--		Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
Inonotus obliquus	Plant	--	--		Hobbs, C. 1996. 3rd Ed. (1st Ed. 1986). Medicinal Mushrooms. Botanical Press, Santa Cruz. 251 pp. (With a useful tabular summary of 'all medicinal mushrooms species').
Juglans nigra	Seed	--	--		--
Juniperus communis	Leaf	--	--		--
Lycium chinense	Leaf	--	4	-0.7832405942188944	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
Lycopodium clavatum	Plant	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
Lycopodium selago	Plant	--	--		--
Maranta arundinacea	Leaf	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Melia azedarach	Bark	--	--		--
Melia azedarach	Fruit	--	--		--
Melia azedarach	Root	--	--		--
Melilotus officinalis	Shoot	--	--		--
Menyanthes trifoliata	Plant	--	--		--
Musa x paradisiaca	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
Olea europaea	Fruit	--	--		--
Ononis spinosa	Root	--	--		Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin.
Origanum vulgare	Plant	--	--		--
Oryza sativa	Plant	--	--		--
Panax ginseng	Root	--	55	0.9214964116563734	--
Panax ginseng	Plant	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Panax quinquefolius	Plant	33	33	-0.751444222737324	--
Papaver somniferum	Pericarp	--	--		--
Picrorhiza kurrooa	Rhizome	1000	1000		--
Pinus sylvestris	Bark	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Pisum sativum	Root	--	--		--
Pisum sativum	Seed	--	--		--
Plantago major	Plant	--	--		--
Polygonum hydropiperoides	Plant	--	--		--
Prunus armeniaca	Fruit	--	--		--
Prunus cerasus	Plant	--	--		--
Pteridium aquilinum	Plant	--	--		--
Rheum rhabarbarum	Pt	4	4		--
Rhododendron dauricum	Plant	--	--		--
Rosa canina	Stem	--	--		--
Rubus idaeus	Plant	--	--		--
Rubus parviflorus	Leaf	--	--		Li, C.Y. 1974. Phenolic Compounds in Understory Species of Alder, Conifer, and Mixed Alder-Conifer Stands of Coastal Oregon. Lloydia, 37(4): 603-607.
Rubus spectabilis	Leaf	--	--		Li, C.Y. 1974. Phenolic Compounds in Understory Species of Alder, Conifer, and Mixed Alder-Conifer Stands of Coastal Oregon. Lloydia, 37(4): 603-607.
Salvia officinalis	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
Salvia sp.	Seed	69	69	1.2724800813536126	Phenolic Compounds in Food and Their Effects on Health, 67.
Sanguisorba minor	Plant	--	--		--
Santolina chamaecyparissus	Plant	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Schoenocaulon officinale	Seed	--	--		--
Serenoa repens	Wood	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Sesamum indicum	Leaf	--	--		--
Solidago gigantea	Plant	--	46	-0.6618224347044322	--
Stellaria media	Shoot	--	--		--
Tabebuia impetiginosa	Stem Bark	--	--		--
Taraxacum officinale	Flower	--	--		--
Taxus baccata	Leaf	5	21	1.1534997842132808	--
Terminalia chebula	Plant	--	--		Kim, J. S., Lee, G. D., Kwon, J. H., Yoon, H. S. 1993. Identification of Phenolic Antioxidative Components in Terminalia chebula Retz. Han'guk Nonghwa Hakhoe Chi 36 4: 239-243.
Theobroma cacao	Seed	--	--		--
Thymus vulgaris	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
Triticum aestivum	Seed	13	39	0.04599325595254022	--
Urtica dioica	Root	--	--		--
Vaccinium corymbosum	Plant	--	--		--
Vaccinium myrtillus	Fruit	--	--		--
Vaccinium myrtillus	Fruit Juice	--	--		--
Vaccinium myrtillus	Leaf	--	--		--
Vanilla planifolia	Fruit	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Vinca minor	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Vitex agnus-castus	Plant	--	--		--
Vitis vinifera	Hull Husk	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Vitis vinifera	Leaf	--	--		--
Zea mays	Sprout Seedling	--	--		--
Zea mays	Tissue Culture	--	--		--
Zingiber officinale	Plant	--	--		Stitt, Paul. Why George should eat broccoli.